

Notice of Allowability

Applicati n No.

09/997,272

Examiner

David A. Zarneke

Applicant(s)

ZHAO ET AL.

Art Unit

2827

-- Th MAILING DATE of this communication appears n the cover sh et with the correspondenc address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the after-final amendment filed 6/14/04.
2. ☒ The allowed claim(s) is/are 39-43 and 61-78.
3. ☒ The drawings filed on 21 March 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachm nt(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

David A. Zarneke
Primary Examiner
AU2827
6/30/04

EXAMINER'S AMENDMENT

Claims 39-43 and 61-78 have been allowed over the prior art.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeffrey Weaver and Nicole Dretar on June 30, 2004.

The application has been amended as follows:

1) Replace claim 66 with:

--66). The method of claim 61, wherein the locking mechanism is formed by the steps of:

forming a bump on a surface of the heat slug; and

forming a slot in the surface of the stiffener, wherein the bump is capable of fitting into the slot when the surface of the heat slug is attached to the surface of the stiffener.--

2) Replace claim 66 with:

--67. The method of claim 61, wherein the locking mechanism is formed by the steps of:

forming a bump on a surface of the stiffener; and

Art Unit: 2827

forming a slot in the surface of the heat slug, wherein the bump is capable of fitting into the slot when the surface of the heat slug is attached to the surface of the stiffener.--

3) Change the dependency of the claims as noted:

- a) claim 40, change from "39" to "1".
- b) claim 41, change from "40" to "2".
- c) claim 42, change from "39" to "1".
- d) claim 43, change from "42" to "4".
- e) claim 62, change from "61" to "17".
- f) claim 63, change from "62" to "18".
- g) claim 64, change from "61" to "17".
- h) claim 65, change from "64" to "20".
- i) claim 68, change from "39" to "1".
- j) claim 69, change from "39" to "1".
- k) claim 70, change from "39" to "1".
- l) claim 71, change from "39" to "1".
- m) claim 72, change from "71" to "9".
- n) claim 73, change from "71" to "9".
- o) claim 74, change from "71" to "9".
- p) claim 75, change from "39" to "1".
- q) claim 76, change from "75" to "13".
- r) claim 77, change from "75" to "13".

s) claim 78, change from "75" to "13".

The following is an examiner's statement of reasons for allowance: Prior art could not be located that taught a substrate having a window opening, a stiffener mounted to the substrate, a heat slug attached to the stiffener through the opening, wherein the stiffener includes a locking mechanism with the heat slug.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Zarneke whose telephone number is (571)-272-1937. The examiner can normally be reached on M-F 10 AM-6PM.

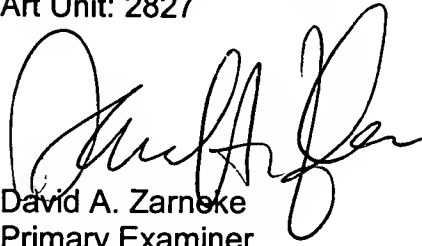
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571)-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/997,272

Page 5

Art Unit: 2827

A handwritten signature in black ink, appearing to read 'David A. Zarneke', written over the printed name.

David A. Zarneke
Primary Examiner
June 30, 2004